

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-29. (Canceled)

30. (Currently Amended) A master die to form a molding die used for molding an optical element, comprising:

a master die base body; and

a master die face having a plurality of protrusions or a plurality of hollows so as to transfer the plurality of protrusions or the plurality of hollows from the master die face onto a die face of the molding die, ~~the plurality of protrusions or the plurality of hollows being formed by applying an exposing process and a developing process on a part of the master die base body.~~

wherein the plurality of protrusions or the plurality of hollows formed on the die face of the molding die by the master die face are capable of forming a fine structure on the surface of the optical element, the fine structure having the dimension of a scalar area, an equivalent refractive index area, or a resonance area.

31. (Canceled)

32. (Previously Presented) The master die of claim 30, wherein the master die base body is made of a material having a hardness Hv of 300 or more in a temperature of 500 °C.

33. (Previously Presented) The master die of claim 30, wherein the master die base body is made of a quartz.

34. (Previously Presented) The master die of claim 30, wherein the master die base body is made of a mono crystal silicon.

35. (Previously Presented) The master die of claim 30, wherein the master die base body is made of a material including a tungsten carbide.

36. (Canceled)

37. (New) The master die of claim 30, wherein the plurality of protrusions or the plurality of hollows formed on the die face of the molding die by the master die face are capable of forming a fine structure on the surface of the optical element, the fine structure having the dimension of a scalar area.

38. (New) The master die of claim 30, wherein the plurality of protrusions or the plurality of hollows formed on the die face of the molding die by the master die face are capable of forming a fine structure on the surface of the optical element, the fine structure having the dimension of an equivalent refractive index area.

39. (New) The master die of claim 30, wherein the plurality of protrusions or the plurality of hollows formed on the die face of the molding die by the master die face are capable of forming a fine structure on the surface of the optical element, the fine structure having the dimension of a resonance area.